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Cretaceous and Tertiary Plants.¹—Botanists who are engaged in studying the plants of the Cretaceous and Tertiary formations will fully appreciate the service rendered by Professor Knowlton's latest contribution in the form of a catalogue of these plants, which have always had a special interest because of their often close connection with the flora of our own time. The catalogue possesses double value in that it not only records most of the species so far discovered, but includes also a full and valuable bibliography of the subject. It gives striking evidence of the very rapid growth of our knowledge of this flora during the past twenty years, a fact which becomes all the more apparent when we observe that a number of new species have been recorded since its issue.

Miocene Flora.²—In recent studies of the Miocene plants as found at Idaho City, Idaho ("Payette formation"), Professor Knowlton enumerates twenty-nine species, of which 59 per cent are recognized as new.

Permian Flora.³—One of the richest and most interesting deposits of Permian plants in France is to be found at Lodève, where the slates have supplied material which has been studied by Brongniart and others since 1830. Zeiller now reviews all the available material, and is enabled to announce the addition of six new species, of which five belong to the genus *Callipteris*.

Cretaceous Cycads.⁴—Within the last five years there has been brought together a somewhat remarkable collection of Cycads from the cretaceous formation of the Black Hills. They number 155 specimens of trunks in various states of completeness and preservation, and belong chiefly to Yale University. This material has been studied by Prof. Lester F. Ward, who finds that among different species the height varies from 12 cm. to 130 cm., the diameter from 4 cm. to 75 cm., and that in most cases they represent a type of

¹ Knowlton, Frank Hall. A Catalogue of the Cretaceous and Tertiary Plants of North America, *Bull. U. S. Geol. Surv.*, 1898.

² Knowlton, Frank Hall. Report on the Fossil Plants of the Payette Formation, *Eighteenth Annual Report U. S. Geol. Surv.* (1896-97), Pt. iii, p. 721.

³ Zeiller, M. R. Contribution à l'étude de la flore ptéridologique des schistes permien de Lodève, *Bull. Mus. Marseilles* (1898), Pt. i, vol. i, p. 9.

⁴ Ward, Lester F. Descriptions of the Species of Cycadoidea, or Fossil Cycadean Trunks thus far Determined from the Lower Cretaceous Rim of the Black Hills, *Proc. U. S. Nat. Mus.*, vol. xxi (1898), pp. 195-229.